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Title: **JP60096605A2: PRODUCTION OF HYDROPHILIC RESIN**Derwent Title: Prod'n. of hydrophilic resin used as filler - comprises reacting crosslinked copolymer contg. glycidyl gp. with polyethylene glycol or glycerine [\[Derwent Record\]](#)

Country: JP Japan

Kind: A (See also: [JP05018843B4](#))Inventor: ITAGAKI KOJI;
OUCHI EIRYO;
SHIMURA AKIHIRO;Assignee: MITSUBISHI CHEM IND LTD
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Published / Filed: 1985-05-30 / 1983-10-31

Application Number: JP1983000203968

IPC Code: Advanced: [B01D 15/08](#); [B01J 20/285](#); [C08F 8/00](#); [C08F 120/00](#); [C08F 120/32](#);
[C08G 59/14](#); [G01N 30/88](#);
Core: [B01J 20/281](#); [C08G 59/00](#); [G01N 30/00](#); more...
IPC-7: [C08F 8/00](#);

Priority Number: 1983-10-31 JP1983000203968

Abstract: PURPOSE: To produce a hydrophilic resin suitable as a packing of gel permeation chromatography, by subjecting a glycidyl group-containing crosslinked copolymer to a ring opening reaction in a solvent which can swell the above copolymer.

CONSTITUTION: As a solvent for a ring opening reaction, acetone, 1,4-dioxane, dichloromethane, toluene or the like is used. Namely, (A) a glycidyl group-containing crosslinked copolymer (a copolymer of a glycidyl ester of an unsaturated carboxylic acid with a polyvinyl compound) is added to (B) about 5W20ml, per g of component A, of the above solvent and swollen, and after adding (C) polyethylene glycol (MW \geq about 200) or glycerin and (D) about 5W50mg, per g of component A, of a catalyst (e.g., sulfuric acid), the resulting mixture is reacted by ring opening at about 50W100°C for about 3W10hr to render the crosslinked polymer hydrophilic.

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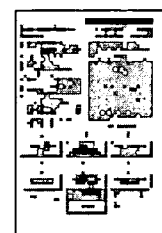
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<input checked="" type="checkbox"/>	US5200464	1993-04-06	Furuno; Akihisa	Nitto Chemical Industry Co. Ltd.	Water-soluble radical-curing polyvinyl alcohol derivative



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